Haier

Domestic air conditioner

SERVICE MANUAL

Model

HWF05XC7

Feature

- **Top Discharge Airflow Pattern**
- **Modern Family-look Design**
- **Safety Power Cord**
- **2 Cool Settings,2 Fan Settings**
- **Mechanical Control**

AC-8888-183

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1. Product Code Illumination and Series introduction

1). Model identification:

H W □ □□ □ □ □
A B C D E F G

A: Abbreviation of Haier
B: Abbreviation of Window
C: R - Remote Control
F - Mechanical Control
D: Nominal cooling capacity (BTU/h) with the first two numbers based on one thousand unit
E: The type of power supply
X - 115V / 60HZ
V - 230V/208V / 60HZ
F: Function code
C - Cooling only
H - Heating pump or Electric heater
G: Design code

ESA □ □□ □
A B C

A: Abbreviation of Energy Star
B: Nominal cooling capacity (BTU/h) with the first two numbers based on one thousand unit
C: Design code

Examples:
HWF05XC7
It represents mechanical control window air conditioner. Cooling capacity is 5200BTU/h and the power supply is 115V / 60Hz.

2). Standard situation/conditions

No.	Operating condition	Indoor air state		outdoor air state	
		D.B. ℃	W.B. ℃	D.B. ℃	W.B. ℃
1	Nominal cooling	26.7	19.4	35	23.9
2	Nominal heating	/	/	/	/
3	Nominal electrical Heating	/	/	/	/

2. Specification

Item			Unit	HWF05XC7
Cooling capacity			BTU/h	5200
Heating capacity			BTU/h	/
Power supply			Ph, V, Hz	1, 115, 60
Cooling		Power input	W	535
		Running current	A	4.8
		EER	BTU/(h·W)	9.7
Heating		Power input	W	/
		Running current	A	/
		COP	BTU/(h·W)	/
Sound Level		Indoor side	dB(A)	51
		Outdoor side	dB(A)	62
Case		Height	inches	11 5/32
		Width	inches	17 9/32
		Depth	inches	7 9/32
Packaging dimensions		Height	inches	12 25/32
		Width	inches	19 11/16
		Depth	inches	14 15/16
Weight		Net	lbs	38.6
		Gross	lbs	44.0
Compressor		Type		Rotary
		Model	/	YZG-A15CD2
		Running cap. For comp.	μF	40μF/250 V
Pressure		Hi-Pressure	Psig	380
		Low-Pressure	Psig	170
Refrigerant		Model	R22 or R410A	R22
		Charge	OZ	10.6
Fan	Type	Indoor unit	/	centrifugal
		Outdoor unit	/	axial
	Fan Speed	Indoor unit	r/min	1110±30
Air volume			CFM	135
Moisture removal			Pints/hr	/

3. Safety and Precaution

WARNING: Following these basic precautions will reduce the risk of fire, electrical shock, injury or death when using your air conditioner.

1) Air conditioner must be connected to proper electrical outlet with the correct electrical supply. (See table)

2) Proper grounding must be ensured to reduce the risk of shock and fire.
DO NOT CUT OR REMOVE THE GROUNDING PRONG.
If you do not have a three-prong electric receptacle outlet in the wall, have a certified electrician install the proper receptacle. The wall receptacle MUST be properly grounded.

3) DO not use if power cord is frayed or damage. Also avoid using if there are cracks or abrasion damage along the length, plug or connector.

4) DO NOT USE AN ADAPTER OR AN EXTENSION CORD.

5) When installing your air conditioner in a window, make sure the window is strong enough to hold the weight of he air conditioner. You also want to secure and correctly install your air conditioner property to prevent it from falling. Extra brackets or support may be required depending on your window.

6) Do not black airflow inside or outside the air conditioner with blinds, drapes, protective covers, shrubs or bushes.

7) Be careful of sharp edges on the front and rear fins of the unit that could cut and cause serious injury.

8) Be careful when lifting the air conditioner to install or remove the unit. Always use two or more people for this.

9) Always unplug the air conditioner before servicing it or moving it.

4. Warning and Cautions

WARNINGS: Following the safety messages is very important.

These messages can save you from being injured or killed. Warning symbols alert you to be careful and means Danger. Always follow instructions to be safe and reduce chances of injury or death. Warning and Danger signs will precede safety messages.

Electrical Safety

Grounding: This room air conditioner must be grounded. Grounding reduces the risk of electric shock by providing an escape wire for the electric current. The power cord has a grounding wire with a grounding plug. Plug it into an outlet that is properly installed and grounded.

WARNING: Improper use of the grounding plug can result in a risk of electric shock. Call a qualified electrician if you don't understand the grounding instructions or if you are not sure if the air conditioner is properly grounded. If the wall outlet is not grounded, please contact an electrician to have it replaced with a properly grounded outlet.

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.

Adapter Plug: We strongly advise against using an adapter plug.

5. Installation and Accessory Parts

Check the following before you install your air conditioner:

1) The unit is free of all obstructions inside and outside the room e.g. drapes, curtains, Furniture, plants, shrubs, bushes, trees, other structures like building, garage etc. Air conditioner must have clear unobstructed airflow through the condenser to remove he heat.

2) The window is strong enough to hold the weight of the air conditioner. Extra brackets or supports may be needed depending on your windows. Brackets or Supports not provided in all models.

3) The window sill and track are strong enough to hold he weight of he air conditioner.

4) The wall is strong enough to hold the unit. Extra brackets or supports may be needed depending on the wall. (Brackets or Supports not provided in all models).

5) There is adequate and proper power supply near the air conditioner.

⚠ 6) DO NOT use adopter plugs.

⚠ 7) DO NOT use extension cords.

⚠ 8) Do NOT cut or remove the ground prong.

⚠ 9) DO NOT modify the plug or the electrical wall outlet in any way. If plug does not fit the electrical outlet have a certified electrician do the necessary change.

⚠ 10) NOT connect electrical power to the unit before installation.

⚠ 11) DO NOT use if power cord is worn out, hayed or damage. Avoid using if here are cracks or abrasion damage along the length, plug or connection.

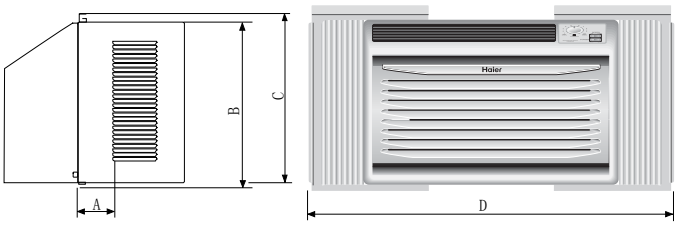
⚠ 12) DO NOT install into any existing cabinet or sleeve which does not have ride and top air vents.

⚠ 13) Be careful of exposed sharp edges of the cabinet and sharp coils (fins) on the back of the unit that could cut and cause serious injury.

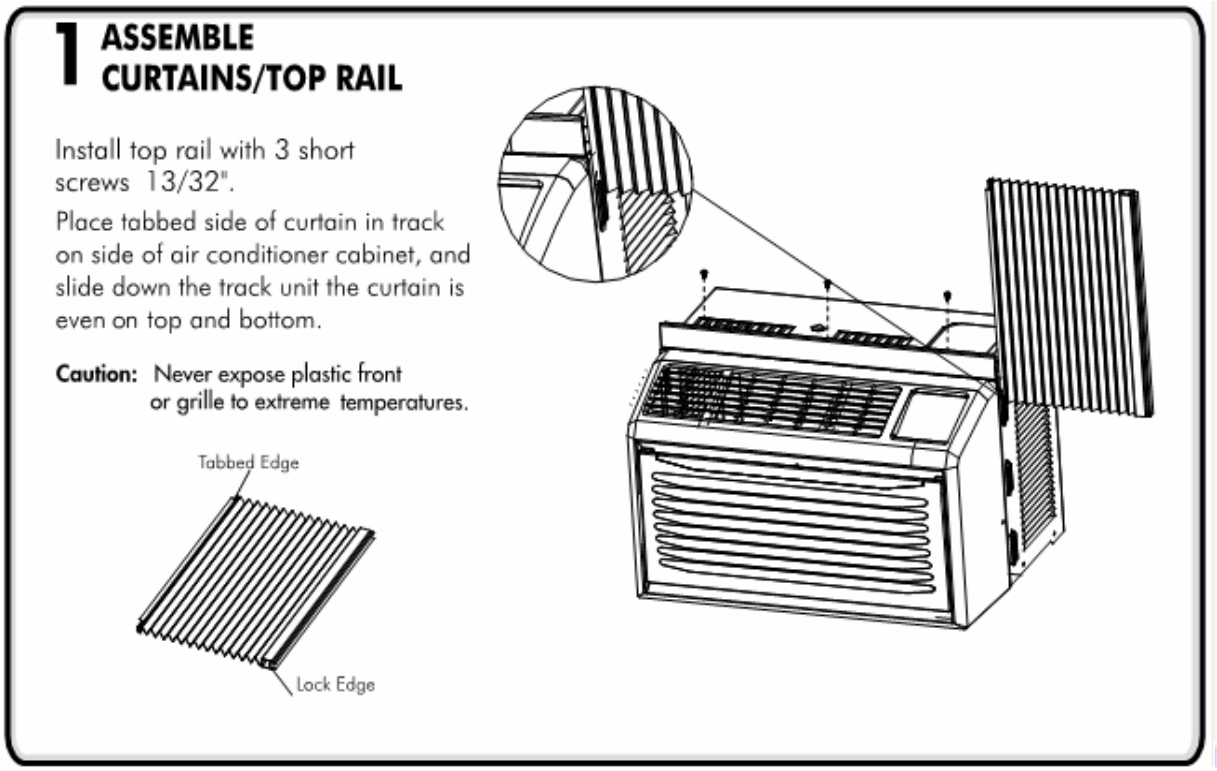
Installing Unit into A Window

Window Opening Requirements

The air conditioner is designed to fit into double or single hung sash type windows. Each of the units comes with an installation kit that provides adjustable mounting louvers to fill the gaps between the sides of the unit and the window frame. The chart below reflects the dimensions of the units with and without installation kits. Measure your window opening width and compare it to the chart below to ensure that it meets the minimum and maximum window width requirements.



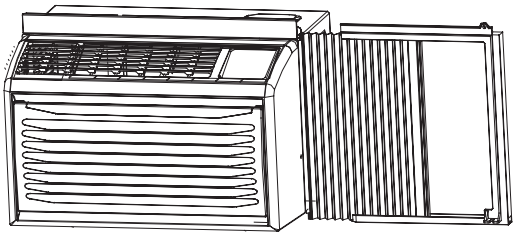
Model / Dimension	HWF05XC7
A (inch)	1 31/32
B (inch)	11 5/8
C (inch)	12 3/8
D (inch) Max	36
D (inch) Min	23 1/4
Case High	11 5/32
Case Width	17 9/32
Case Depth	12 27/32

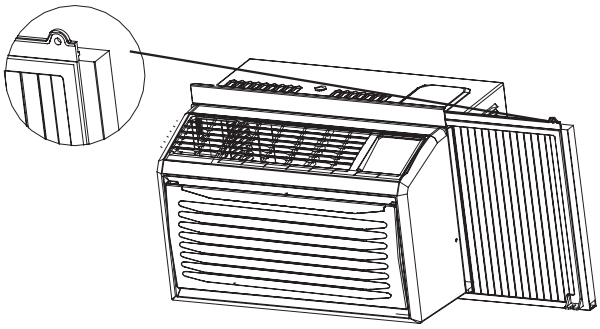


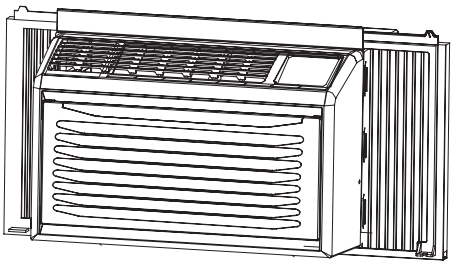
2 ASSEMBLE LEFT FRAME / RIGHT FRAME

Slide the left frame onto the air conditioner cabinet using the tracks on the top and bottom of the unit. Slide the frame as close to the air conditioner as possible so that the curtain locks into place. Gently pull the frame out until it is the correct length for your application.

Install the left curtains and frames in the same way.

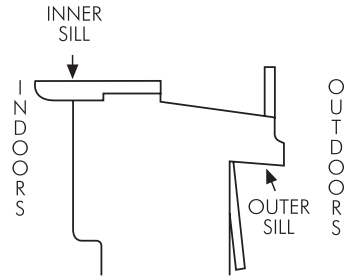


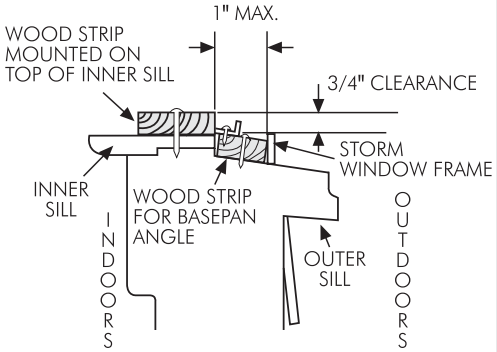




3 PREPARE WINDOW FOR INSTALLATION

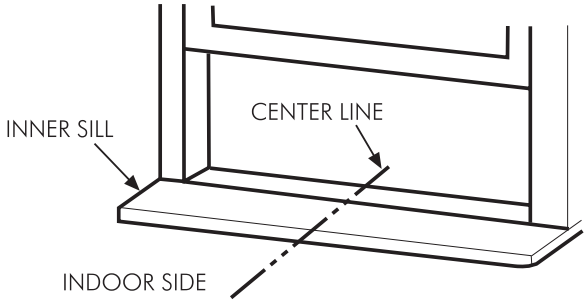
1. This unit is designed for installation in standard double hung windows with actual opening widths of 23,25 " to 36 ". The upper and lower sash must open sufficiently to allow a clear vertical opening of 12" from the bottom of the sash to the window stool.
2. If storm window presents interference, fasten a 2" wide wood strip (not included) (OUTER SILL) to the inner window sill across the full width of the sill. The wood strip should be thick enough to raise the height of the window sill so that the unit can be installed without interference by the storm window frame (STORM WINDOW FRAME) or wood strip (OUTDOORS) to help condensation to drain properly to the outside.
3. Install a second wood strip (approximately 6" long by 3/2" wide and same thickness as first strip) in the center of the outer sill flush against the back off the inner sill. This will raise basepan angle .
4. If the distance between STORM WINDOW FRAME and WOOD STRIP MOUNTED ON TOP OF INNER SILL is more than 1" , two wood strips are not necessary.





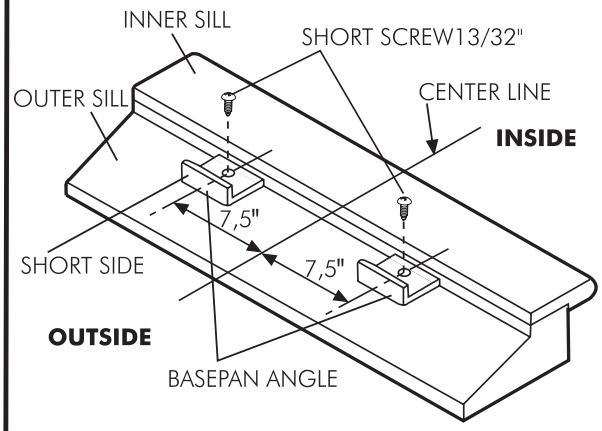
4 LOCATING UNIT IN WINDOW

Open the window and mark center line on the center of the inner sill.



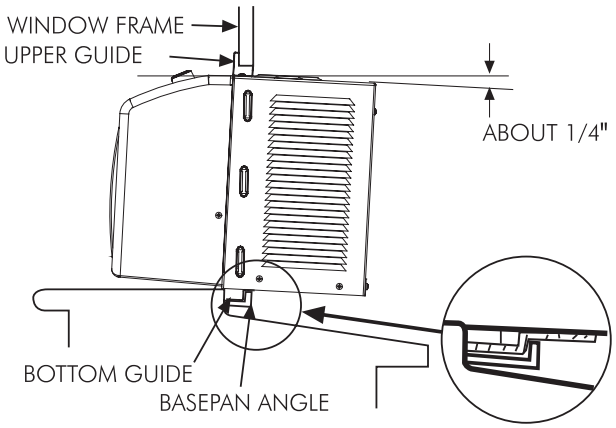
5 ATTACH BASEPAN ANGLE

Install the basepan angle behind the inner windowsill, with the short side of basepan angle as shown. Use the 2 short screws 13/32" provided.
The basepan angle helps to hold unit securely in place.
Be sure to place basepan angle edge flush against back of inner sill.



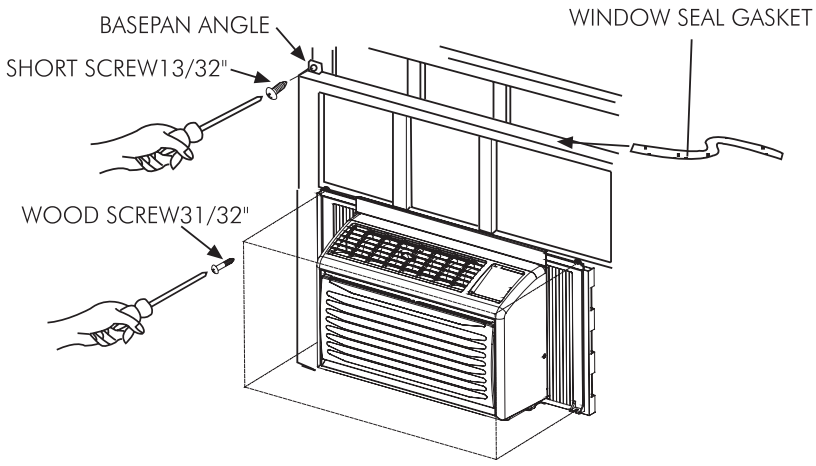
6 INSTALL THE AIR CONDITIONER IN THE WINDOW

Carefully lift the air conditioner and slide it into the open window. Make sure the bottom guide of the air conditioner drops into the notches of the basepan angle.
While steadying the air conditioner, carefully bring the window sash down behind the upper guide of the air conditioner.

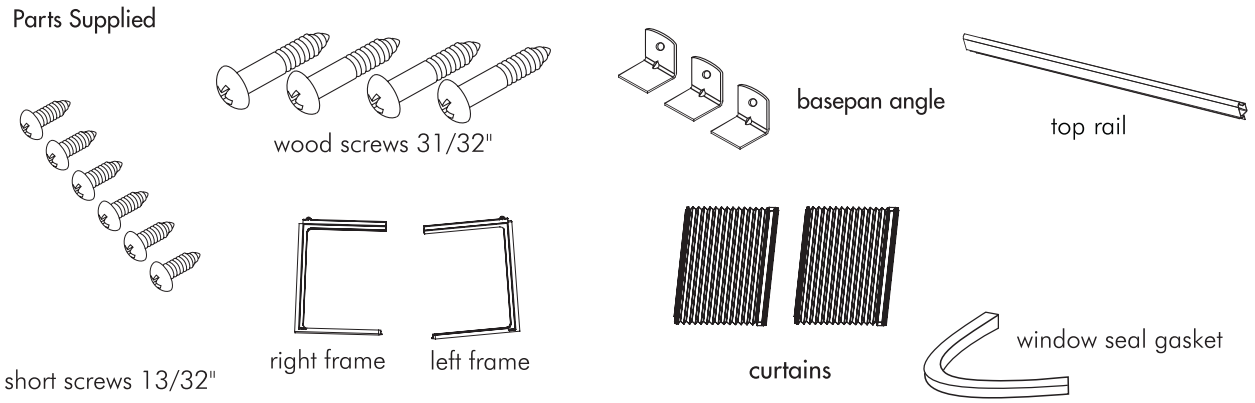


7 INSTALL THE SEAL GASKET AND SASH LOCK

Extend the side curtains to fill the window opening using 4 wood screws 31/32" to secure them.
Cut the seal gasket to the window width. Stuff the sash seal between the glass and the window to prevent air and insects from getting into the room.
Fasten the basepan angle, using a short screw 13/32".



Parts



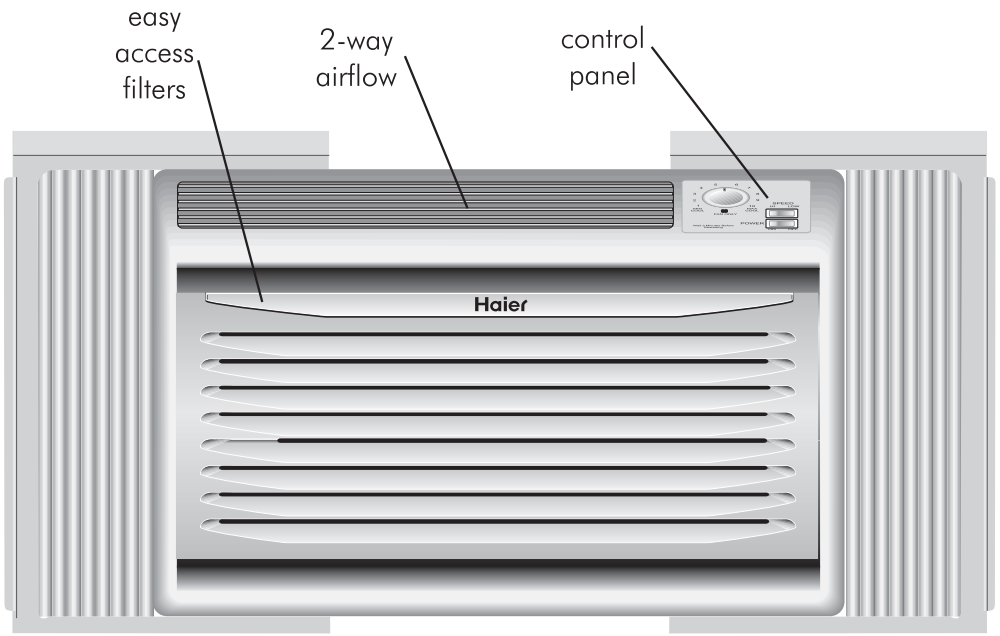
Model: HWF05XC7,HWF05XC7-2

Tools

You will need to have the following tools to help you in the installation of your air conditioner.

- Scissors
- Phillips Screwdriver
- Standard Screwdriver
- Pliers
- Wrench
- Drill and Drill Bits
- Tape Measure
- Gloves
- Level
- Sockets

6. Parts and Functions



MODEL: HWF05XC7,HWF05XC7-2

1.Temperature Set Knob

This knob adjusts the temperature of the air,--The higher the setting the cooler the air temperature. With this knob you can set the temperature to your desired comfort level, min.cool being the warmest and max.cool being the coldest.

2.MODE Set Swithch

With this knob you can control the fan speed as well as the cooling speed. You have 2 Fan speeds to choose from: HI and LO.

3. 2-Way Air Flow

The air directional louvers let you control the direction of the airflow to the desired direction. The airflow can be directed right side-left side.

4. Window Install Kit

This kit enables you to install the air conditioner in a double hung window. Extra brackets or support may be needed, depending on your window.

5. How The Unit Drains

On humid days with the air conditioner in use, moisture may collect on the pan or the bottom of the air conditioner. If the unit is positioned properly, the moisture will gather towards the back of the unit.This will not affect the operation of the unit and the moisture will evaporate in time. Occasionaly the moisture will flow over the back of the pan, but this will not affect the operation of the unit. Never drill holes in the pan under any circumstance.

7. Abnormity Diagnose

If air conditioner does not operate:

Check if unit is plugged in. The plug may have come loose.
Check if the unit is in the "Off" mode.

Air from air conditioner is warm:

The A/C setting may need to be raised.

Ice formation on cooling coils:

The outside temperature is too cold. Set the unit on "fan only" setting to defrost ice.
The temperature setting may be too cold.
The unit BTU may be too high for the room.

Air conditioner is working but room is not cooling:

The room may have appliances that produce heat. Use an exhaust fan to remove excess heat.
Redirect the airflow. Remove any obstacles.
All doors and windows need to be closed so cool air does not escape the room.
The air filter may need cleaning.
The unit BTU may be too low for the required cooling area.
On extreme hot & humid days, air conditioners may take a little longer to cool.
Vent may be in the open position. Vent has to be closed for optimum cooling.

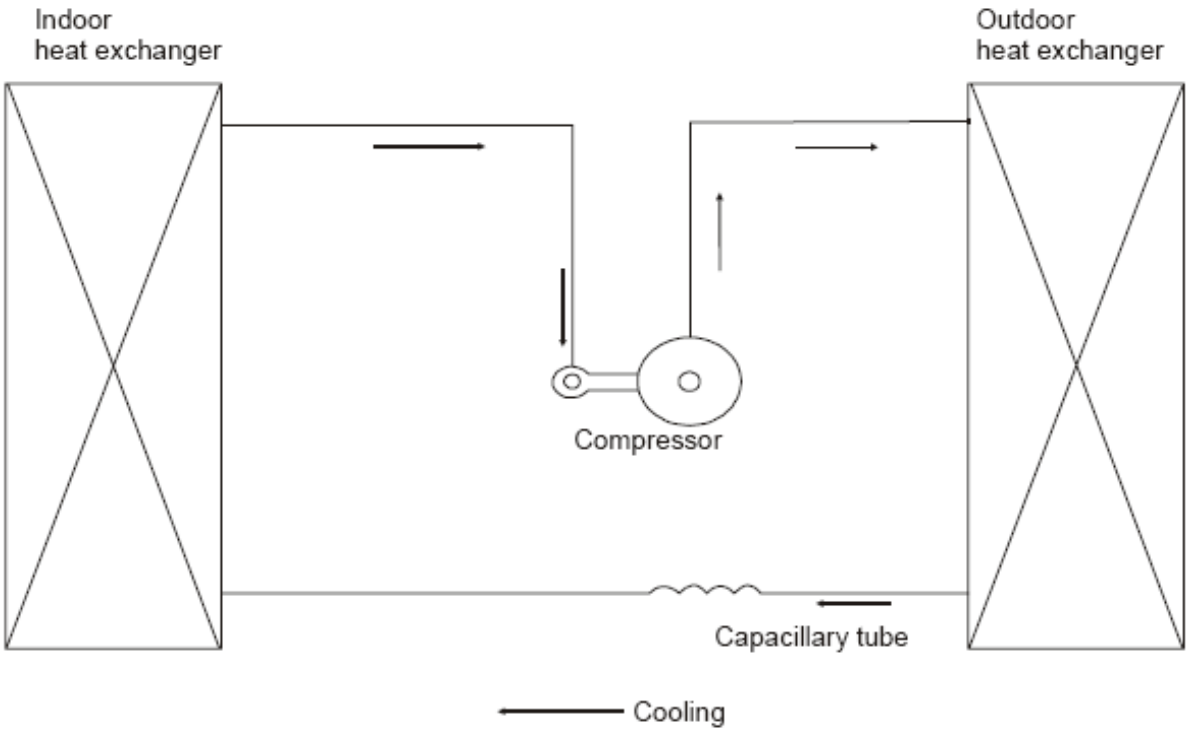
Air conditioner is making noise when cooling:

You may hear sounds of air movement, water, compressor clicking on and off or window vibrations. Please read Operating Guide - Normal Operating Sounds.

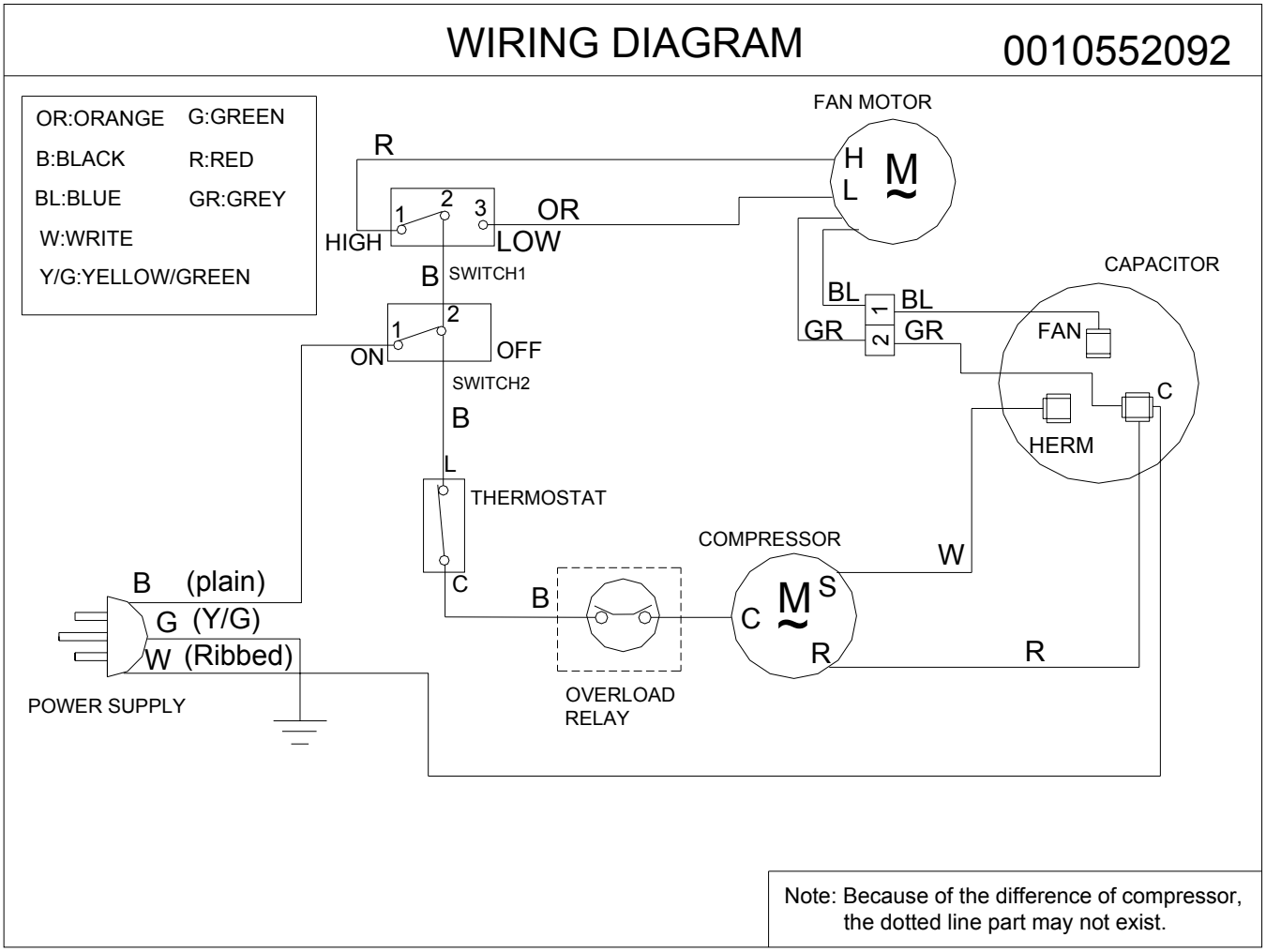
Water in the air conditioner cabinet:

This is normal, as your air conditioner not only cools but also dehumidifies the air. If there is water dripping inside the room, check the installation of the unit. The unit may need to be reinstalled.

8. System Flow Chart



9. Wiring diagram



Sincere Forever

Haier Group